

What is claimed:

Sub A1 1 ~~A method of pushing data items from a host system to a mobile data communication device~~

comprising the steps of:

5 detecting an event trigger at the host system; and

in response to detecting the event, continuously redirecting the data items from the host

~~system to the mobile data communication device.~~

2. The method of claim 1, further comprising the step of:

10 selecting at least one type of data item to redirect from the host system to the mobile data communication device. B

3. The method of claim 1, further comprising the step of:

15 selecting particular event triggers that will cause the host system to begin redirecting the data items. P

Sub B2 4. The method of claim 1, further comprising the step of:

providing information regarding the configuration of the mobile data communication device.

20 5. The method of claim 4, wherein the configuration information includes:

the address of the mobile data communication device.

6. The method of claim 4, wherein the configuration information includes:

the type of mobile data communication device.

7. The method of claim 4, wherein the configuration information includes:  
the types of data item attachments that the mobile data communication device can receive and  
process.

8. The method of claim 5, further comprising the step of:  
repackaging the data items prior to redirection to the mobile data communication device by  
placing the data items in an electronic wrapper addressed using the address information of the mobile  
data communication device.

9. The method of claim 7, further comprising the steps of:  
for each data item to be redirected, determining whether the data item includes an attachment,  
and determining the type of attachment;  
determining whether the mobile data communication device can receive and process such  
attachments; and  
if so, then redirecting the attachments to the mobile data communication device, and if not,  
then redirecting the attachments to an external machine that is compatible with the attachment.

10. The method of claim 9, wherein the type of attachment is a sound file.

11. The method of claim 3, wherein the event triggers include external events, internal events,  
or networked events.

9  
12. The method of claim <sup>8</sup>11, wherein the external event is a message from the mobile data communication device to start redirection.

10  
13. The method of claim <sup>8</sup>11, wherein the internal event is a calendar alarm.

5  
11  
14. The method of claim <sup>8</sup>11, wherein the internal event is a screen saver activation.

12  
15. The method of claim <sup>8</sup>11, wherein the internal event is a keyboard timeout signal.

16. The method of claim 11, wherein the networked events include messages to begin redirection from computer systems connected to the host system via a network.

17. The method of claim 8, further including the steps of:  
receiving the repackaged data items at the mobile data communication device; and  
15 removing the electronic wrapper from the data items and storing them at the mobile device.

18. The method of claim 15, further including the steps of:  
providing the address of the host system to the mobile data communication device;  
generating a reply data item at the mobile data communication device in response to a data  
20 item received from the host system; and  
repackaging the reply data item by placing it in an electronic wrapper addressed using the  
address information of the host system.

14/10. The method of claim 1, wherein the mobile data communication device is a pager.

15  
20. The method of claim 1, wherein the mobile data communication device is a device equipped to receive both voice and non-voice data messages.

5

Sub 3/4 21. The method of claim 1, wherein the host system includes a preferred list for limiting the redirection step to redirecting only those data items that are transmitted to the host system from a sender on the preferred list.

10 17/22. The method of claim 21, wherein a user can add and subtract senders from the preferred list.

20 20/23. The method of claim 21, wherein the preferred list is activated and deactivated at the host system.

15 21/24. The method of claim 21, wherein the preferred list is activated and deactivated by a command message transmitted from the mobile data communication device to the host system.

18 25. The method of claim 22, wherein the user can add and subtract senders from the preferred list by configuring the host system.

20 19/26. The method of claim 22, wherein the user can add and subtract senders from the preferred list by transmitting a command message from the mobile data communication device to the host system.

27. A method of replicating data between a first system and a second system comprising:  
establishing a first set of data elements at the first system as subject to replication with a  
corresponding set of data elements at the second system;  
detecting an event trigger has occurred at the first system;  
5 providing an indication of the data element in the first set of data that has changed to the  
second system by placing information in an electronic wrapper delivered to the second system as part  
of a data transfer transaction;  
initiating the data transfer transaction thereby transferring the electronic wrapper to the  
second system;  
10 receiving the electronic wrapper at the second system;  
processing the electronic wrapper; and  
updating each element in the corresponding set of data elements that requires updating as a  
result of the change in the data element in the first set of data elements.

15 28. The method of claim 27, wherein the first system is a host computer and the second system  
is a hand held electronic device.

29. The method of claim 27, wherein the first system is a hand held electronic device and the  
second system is a host computer.

20 30. The method of claim 27, wherein the data transaction is an electronic message sent from the  
first system through a data network to the second system.

31. The method of claim 27, wherein the first set of data elements is a set of calendar entries.

32. The method of claim 27, wherein the first set of data elements is a set of address book entries.

33. The method of claim 30, wherein the electronic wrapper includes an attachment to the electronic message.

34. The method of claim 30, wherein the electronic message is an e-mail message and the data network is the Internet.

35. The method of claim 27, wherein the method includes a step of receiving from the second system a request to begin replication.

36. The method of claim 35, wherein the method includes a step of processing the request to begin replication.

37. The method of claim 27, wherein the second system can limit the information being sent to it by sending a command to the first system.

38. A method of remotely controlling a host system from a personal communications device comprising the steps of:

establishing at the host system a set of commands that can be invoked to require the host system to act in response to invocation of any such command;

5 sending from the personal communications device a direction to the host system to invoke a command from the set of commands;

invoking the command at the host system; and

processing the command so that the host responds to the command.

39. The method of claim 38, wherein at least one command is a direction to continuously redirect certain data elements from the host system to the personal communications system.

40. The method of claim 38, wherein the host system provides an indication that data has been redirected.

41. The method of claim 38, wherein the data elements that have been redirected are marked at the host system as redirected.

42. The method of claim 38 comprising the further step of transmitting from the personal communications device to host device an acknowledgment that the personal communications device is receiving data redirected from the host system.

43. The method of claim 38, wherein the personal communication device can limit the information being sent to it by transmitting a command to the host device.

44. A system for pushing information from a host system to a mobile data communication device, comprising:

a communications network over which the host system and the mobile data communications device can communicate;

a redirector program comprising:

software instruction means for prompting a user to select certain data items of information to be pushed to the mobile device;

software instruction means for defining one or more events that will trigger the system to begin pushing the selected information; and

software instruction means for detecting the occurrence of the one or more events and for pushing the selected data items of information from the host system to the mobile data communication device via the network; and

a software program operating at the mobile data communications device for receiving the data items of information from the host system.

45. The system of claim 44, wherein the redirector program is operating at the host system.

46. The system of claim 44, further comprising:

a network server in communication with the host system, and wherein the redirector program is operating at the network server.

47. The system of claim 44, further comprising a preferred list stored at the host system for limiting the pushing of selected data items to those items that were sent to the host system from a sender on the preferred list.



